

The 50 MHz DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools KA3B. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are \$20 U.S. third class mail, \$25 U.S./Canada/Mexico airmail, \$25 by surface and \$30 by airmail elsewhere for 12 issues. Circulation matters and DX reports should be sent to 12450 Skyline Blvd., Woodside, CA 94062-4541 USA. My Internet address is frank@sneaky.sri.com. The bulletin may be freely quoted, provided that credit is given.

The "Magic Band" Awakens in the Southern Hemisphere

Europe to South America this late in the solar cycle? Yes! LW5EJU reports working CT3EX November 3 at 2139Z. LW5EJU also reports working Central America, the Caribbean, and W5/7 during October & November 1994.

I also received a log from Peter, PY5CC, with a report of stations he heard and worked as PY0FM from Fernando de Noronha Is. (HI36SD) between October 27 and November 2.

Apparently Peter and Nestor did not hear each other during this period, even though Nestor did work PS7KM (in HI24JE) on the 29th at 2139Z.

I am printing below a letter from Nestor, LW5EJU, along with an English translation obtained with the assistance of *Spanish Assistant* and Globalink's *Power Translator for DOS vs. 2.0* and a good English/Spanish dictionary. (I am not literate in the Spanish language.)

Estimado Victor R. Frank, por la presente carta le envío una lista de contactos de radio realizados el mes pasado. Espero que le puedo ser de utilidad, como para ir teniendo conocimiento de como se comportan los 6 m "Banda Magica" en el hemisferio sur.

Lo felicito a usted y al equipo que forman "The 50 MHz DX Bulletin" por el trabajo serio que están realizando. Me gustaría que me indicaran en una carta "si es posible"; cuanto serio el precio del la suscripción del Boletín para la Argentina, "Si es que me to puedes mandar al Boletín." Disculpen que les mande lo carta en Español, mi Inglés es muy malo y llego solo a leerlo.

Le continuaré enviando más listas de contactos en los 50 MHz.

Saludes hasta la próxima carta.

Dear Victor R. Frank,

I am sending you with this letter a list of radio contacts made the past month(s). I hope that they will be useful for extending our knowledge of the behaviour of the 6m "Magic Band" in the southern hemisphere.

I congratulate you and the group that form "The 50 MHz DX Bulletin" for the serious work that you are accomplishing.

Would you please indicate in a letter "if it is possible"; the price of a subscription to the Bulletin to Argentina "If we can order the Bulletin."

Please excuse my (writing) you this letter in Spanish, my English is very poor, and I can only read it.

I will continue to send you more lists of contacts on 50 MHz.

Good health until the next letter.

Nestor Eduardo Zucchi, PO Box 354, Zip code 1629, Pilar, Buenos Aires, Republica Argentina

Apparently Nestor was not among the stations to which I sent the "Solicitud de Libros" mentioned last month, but had heard of us second-hand. I believe his QTH was not in my callbook. He listed 175 stations heard or worked on 6m between September 14 and November 4. Needless to say, I have offered him an exchange subscription and am looking forward to future correspondence with him in Spanish.

September-November DX Reports

The following reports of 50 MHz and higher DX heard and worked are courtesy of *VHF-UHF Digest*, G4UPS, SM7AED, SP5CCC, JA1VOK, ZL1MQ, WB8YFE, K6QXY, PY5CC and LW5EJU. Reports of SMs, PA3FYD, and R3VHF are courtesy of SM7AED's *6-metre info*. Apologies to any sources I may have forgotten. In the tabular listings which follow, the year (1994) is understood, the first entry is mmddhhii, where mm is the month, dd is the day of the month, hh is the hour UTC, and ii is the minutes. A + to the right of the time indicates the observation was one of several in aa time period and is probably later than reported. The call at the right is that of the observing (and usually reporting) station. Symbols, V=Video Carrier, I=Inband video sidebands, F=FM audio, B=beacon, C=CW, S=SSB, H=heard only, T=Television picture.

News of Africa

ASCENSION IS

10272327	ZD8VHF/B	B	PY0FM
10312255	ZD8X		PY0FM
10312257	ZD8VHF/B	B	PY0FM
11020155	ZD8VHF/B	B	PY0FM

News of Europe

EUROPE GENERAL

10051110	EUROPEAN	TV	V	STRONG	-1148	I	G4UPS
10201050	EUROPEAN	TV		<1115)		I	G4UPS
10291805	EUROPEAN	TV				I	G4UPS

AUSTRIA

10201102	OE6LOG	55	JN76	S	G4UPS	
10291930	OE5OLL	58	JN68SI	S	G4UPS	
10291935	OE5XBL	59		H	G4UPS	
10300951	OE2UKL	59	JN67LX	(-1003)	S	G4UPS

MALTA: From G4UPS: "Bill Stirling, GM4DGT, was on holiday in Malta for a fortnight in October--he returned home in the early hours of October 23--and he was very busy on the HF bands and 6m as 9H3TV. I was one of the fortunate few who worked him on his only opening into the UK on 6m during his stay on the day prior to his departure--October 22! Bill has recently moved to a new address and has asked me to QSP his new details for those requiring a QSL card direct:

Mr. Bill Stirling, GM4DGT
58, Tippet Knowes Park,
Winchburgh,
West Lothian EH52 6UP,
SCOTLAND"

10181842	9H3TV	JM75	SM7FJE	ES
10221025	9H3TV		I070	
10221038	9H3TV	559 JM75 (-1043)	C G4UPS	
10221040	9H5AB		SM7FJE	ES
10221313	9H1AW	JM75AA 599	50.110 C	SP5CCC K002
10232132	9H1JN	JM75	SM7FJE	ES
10281210	9H5AB	JM75	SM7AED	ES

NETHERLANDS: SM7AED's **6-metre Info** carried the following report from Remco, PA3FYM: "During October 12-13 there was a nice tropo opening to the United Kingdom (and undoubtedly towards other areas of Europe too, but unfortunately no activity (there) on 50 MHz.)

On October 12th, I worked between 1836 and 1953 UTC: G8BQX, G7RRD, G3HBR, G4VPD, G4AFJ, F0JHC, GW2HIY, G4LOW, G8AWL, G8YNK, G6OCE, G4MQK, G4DCJ, GW3JSV, G1AWP, G3MUZ. Best DX: GW2HIY > 700 km.

On October 13th, I worked between 1829 and 2136 UTC: G3SYC, G4EHD, G3KEV, G1IIX, G7JCF, G7POZ, G4KWR, G4CUI, G4UFU, 2E1DBZ, WE1BEZ, G1LMZ, G7BZD, G6URJ, G4UPS, G4KUX, G8VPR, G7PBV, G1ABW, G7LLO, G8FFC, G4YMC, G0FEN, G0FQB, G7PED, G3OIL, G8NVX, G7MKB, G4IFX, G7RRD, G4FVP, G0PIK, G7MUB, G0UPZ, G7HLV, G7NOM, G3LZI, G8BTR, 2E1BEY, G6TNX, G0OVA, G1WWU, G7BTP, G0JHC, G1XYM, G1SNK, GW6NLP, G7OCY, G1XWD, G7DND, G6OCE, G7MFN, G6FQZ, G6ZLY, G1IMS, G3KNU, G7NDS, G0SWC, G3VMJ, G3NSM, G6ZYF, G7HKW, G6YYN, OZ2LD, OZ5IQ. Best DX G4UPS > 700 km.

Rig here 1.5 kW ERP, RX-NF 1.5 dB, and 5 el YO-optimized yagi @ 36m ASL."

10010804+PA0ALN 59	H	SM7AED	MS
10121836 PA3FYM, JO22 6M TROPO OPENING		SM7AED	
10131923 PA3FYM 559 JO22OF REMCO	C	G4UPS	TROPO
10160938 PA2VST 449 JO22	C	G4UPS	
10191030 PE1NMR		SM3EQY	TROP?
10291347+PE1HXD JO33 (-1556)		SM7FJE	AU
10291347+PE1MCD JO23 (-1556)		SM7FJE	AU
10291347+PE1OED JO23 (-1556)		SM7FJE	AU
10291349+PA0OOS (-1553)		SM7AED	AU
10291349+PE1FEI JO42 (-1553)		SM7AED	AU
10291349+PE1HXD JO33 (-1553)		SM7AED	AU
10291531+PE1HED 55A (SSB)	H	G4UPS	AUR

NORTHERN IRELAND

10291550 GI6FHD 59A IO64SJ C G4UPS AUR

NORWAY

10232124 LA7SIX/B	B	SM7FJE	AUE
10242032 LA5TFA JP99		SM7FJE	AUE
10291347+LA3UU JO59 (-1556)		SM7FJE	AU
10291347+LA6MP JO59 (-1556)		SM7FJE	AU
10291347+LA6YIA JO59 (-1556)		SM7FJE	AU

POLAND: Tom Ciepielowski, SP5CCC, writes: "I am back home after a vacation. I visited together with my son SP5UUA and my daughter the south part of Poland (KN19). I was born there and my mother still lives there. Sorry for not writing sooner, but was busy with job which is very absorbing. Sometimes I can be home, usually on Sunday."

There was much, much more on the band, but I was not on because of my vacation. I know from other SP stations, that in the period June-September they had worked with OD5, 4X, 9K, etc. The number of Polish stations working on six meters is growing rapidly. Except for grid squares in the NE and SE part of Poland, the rest are already represented on the band."

10011703 SR6SIX/B 479 (-1715)	B	G4UPS
10051329 SP6GZZ 57 JO81HI (-1340)	S	G4UPS
10291347+SP2KFE JO92 (-1556)		SM7FJE AU
10291347+SP3UCA JO92 (-1556)		SM7FJE AU
10291347+SP5TA K002 (-1556)		SM7FJE AU
10291347+SP6GWB JO80 (-1556)		SM7FJE AU
10291347+SP6RLA JO81 (-1556)		SM7FJE AU
10291349+SP3UCA JO92 (-1553)		SM7AED AU
10291753 SP6VWM 55	H	G4UPS
10291801 SP6RLA 59 JN81MC LECH	S	G4UPS
10291901 SP5CCC 55	H	G4UPS

PORTUGAL

10232110 CT0WW/B	B	SM7FJE	ES
10232122 CT1AUW IN60		SM7FJE	ES
10301025 CT0WW/B 559	B	G4UPS	
10301040 CT0WW/B		SM7AED	ES
10301040 CT0WW/B	B	SM7FJE	
10301040 CT4QP	H	SM7FJE	
11032139 CT3EX KM12NQ 45 50.115 S LW5EJU EXE			

RUSSIAN FEDERATION: SM7AED's **6-metre Info** listed a summary of R3VHF's (LO16XG) log for the 1994 Sporadic-E season, which is reproduced below. HH is the hours UTC. He was running 15 W PEP + 5 el rotary W1HDQ Yagi. Official license period May 1 - November 1, 1994.

MMDD	HH-HH	PREFIXES	#QSOS
0515	06-09	YU,S59,SP,OK,DL	10
0516	07-10	SV,YO,9H,SP,F,DL,EH	13
0517	13-18	OK,DL,F,SM,OZ,DL,EU,G,I,GM,GD,ON	52
0519	11	OZ	1
0521	07-12	DL,OZ,ES,G,I	7
0522	08	YU,S59	
0522	12	SP,ER	
0523	09	OH,SM	3
0524	05	OH1NSJ/OHO	1
0601	09-14	YO,SP,DL,OE,OK,9H,OZ,SM,LA,G,GW	53
0602	05-15	JY,YU,SP,S57,ES,EH,I,G,OK,OM,9A,PA	40
0603	07-14	SP,DL,EU,OK,5T5JC,YO,LZ,OZ,F	39
0604	08	RA3TES (tropo, 100 km)	1
0610	08-12	EU,OH9,LA,SP,OK,OM,YU	11
0611	05	ES5MC (meteor scatter)	1
0615	11-16	YO,OK,SP,DL,LA,SM	15
0616	07-08	ES,DL	
0616	16-17	DL,YU,YO,OE,S52,OM,EH6,LZ,9A,I	24
0618	06-23	U,I,OK,EH,OE,9A,F,CT,OH,EH6,SP,G,GW,ES,SM	66
0619	05-08	OH,ON,DL,OH9	9
0622	06	OZ	
0622	18-19	DL	
0623	08	SM	
0624	11	OZ,OK	1
0702	13-22	9A,G,GW,GU,PA,HB,F,DL,EH,OZ,SM,OH	88
0704	14-21	OH,SM,OH9,ES,SM,LA,OZ,GM,DL,SP	44
0708	11-12	SM,OH	3
0711	12-13	SP,DL	4
0716	10-11	S59,DL	4
0717	11-12	YU,DL	3
0719	06-09	LA,G,DL,ES,I,SP,SM,OZ	36
0804	06-09	OZ,DL	3
0813	10	DL5MN/LZ	
0813	12-14	SP,F	5
0823	08-10	9A,S57	3

10301900 UA-TV

49.750 V SM7FJE AU

SARDINIA

10232145 IS0AGY JM49		SM7FJE	ES
10292034 IS0AGY 59 JM49 (-2040)		S	G4UPS

SCOTLAND: See QSL info for GM4DGT under MALTA.

10040725 GB3LER/B 559 (-0740)	B	G4UPS
10231546 GM0ILB IP90		SM3EQY AU
10231630 GB3LER/B	B	SM7FJE AU
10232217 GM4ILS		SM3EQY AUE
10291347+GM4DMA IO97 (-1556)		SM7FJE AU

10291347+GM4HFD IO97 (-1556)
 10291347+GM4ILS IO87 (-1556)
 10291500 GM4DGT 56A IO86GW BILL C G4UPS AUR
 10291531 GM4DMA 59A IO97AM LAWRENCE C G4UPS AUR
 10291531+GM4XQJ 59A (CW) H G4UPS AUR
 10291540 GM4WJA 59A IO87IP JOHN C G4UPS AUR

SERBIA

09301138 YU7FM KN04 59+ SM7AED
 09301139 YU7AS KN05 59+ SM7AED
 09301140 4N0SIX/B KN04 599+ B SM7AED
 10021234 YU7AS 59 KN05DJ S G4UPS
 10181851 YU1NW KN04 SM7FJE ES
 10201058 YU1SIX/B 559 B G4UPS
 10232115 YU1QC H SM7FJE ES
 10291918 YU1IA 559 KN04RO C G4UPS
 10291936 4N1SIX/B 559 B G4UPS
 10291953 YU1ABA 579 KN04 C G4UPS
 10291953 YU1SIX/B 559 B G4UPS

SICILY

10231119 IT9NAN JM77NO 59 50.155 S SP5CCC K002

SLOVENIA

10201057 S55ZRS/B 569 B G4UPS
10291936+S55ZRS/B 559 B G4UPS

SPAIN

10201800 EA TV I G4UPS
10201816 EH1DVY 57 IN82RC (-1838) S G4UPS

SWEDEN: SM3EQY noted (in SM7AED's 6-metre info) working the following stations on 6m on October 25 between 1800-2118 during the Scandinavian activity contest via tropo: SM5VCK JO88, SM3FFT JP80, SM4POB JP70, SM3JGG JP70, SM4UIG JP70, SM5QA JO89, SK0UX JO89, SM0FZH JO89, SM5PAG JO89, OH1KH KP01, OH1NSJ KP11, OH6MPC KP12, OH1NNW KP11, OH6MTC KP12, SM4BRD JP70, SL0ZG JO99, 2118 SM6MPA JO67 MS."

10010804 SM7AED 559 JO65NI C G4UPS
 10022211 SM4POB SM3EQY AU
 10030800 SM7AED 559 C G4UPS
 10031414 SM5VCK SM3EQY AU
 10050800 SM7AED 559 C G4UPS
 10050802 SM7AED 559 C G4UPS
 10070801 SM7AED 579 C G4UPS
 10080800 SM7AED 559 C G4UPS
 10122213 SM5VCK SM3EQY AU
 10160925 SM7FJE 579 JO65ML C G4UPS MS
 10180843 SM3EQY 59 JP81 S G4UPS
 10190820 SM3EQY 57 JP81, 55 @ 1010 S G4UPS
 10231617 SM6UMO JO68 SM3EQY AU
 10231720 SM7FJE JO65 SM3EQY AU
 10231722 SM3EQY SM7FJE AU
 10231937 SL0ZG JO99 SM3EQY AU
 10240900 SM7AED 559 C G4UPS
 10260900 SM7AED 579 C G4UPS
 10270900 SM7AED 559, 579 @ 0931 C G4UPS
 10280900 SM7AED 449 C G4UPS
 10290901 SM7AED 559 C G4UPS
 10291347+SM0KVF JO89 (-1556) SM7FJE AU
 10291347+SM4POB JN70 (-1556) SM7FJE AU
 10291347+SM5VCK JO88 (-1556) SM7FJE AU
 10291349 SM5VCK JO88 (-1553) SM7AED AU
 10291349+SM0KVF JO89 (-1553) SM7AED AU
 10291349+SM3EQY JP81 (-1553) SM7AED AU
 10291349+SM3JGG JP71 (-1553) SM7AED AU
 10291531+SM4POB 55A (SSB) H G4UPS AUR
 10310900 SM7AED 559 & 0905 57 SSB C G4UPS
 10310905 SM7AED G4UPS

UKRAINE: G4UPS writes: "My only QSO so far with Ukraine on 6m was with UX0FF (KN45NI) on June 24, 1994. I have just received my QSL card for the QSO direct and have been requested to pass along his QSL details for the benefit of others requiring a QSL card direct."

Nikolay Lavreka
PO Box 3
272630, Izmail, UKRAINE"

WALES

10232003 GW4CSK IO81

SM7FJE ES

News of North America

FM and TV DX observations were down sharply in the November 1994 *VHF-UHF Digest*, the Official Publication of the Worldwide TV-FM DX Association. This month's reporters from that publication are: Greg Coniglio, Williamsburg, NY 14221; William R. Hepburn, Brampton ON L6Y 4T7; and Richard Contone, Jamaica NY 11414.

November's issue also contains Part One of UHF Development, a history of the "Ultra-Highs" written by Robert B. Cooper, ZL4AAA. Part One, in fact, followed the development of the VHF TV spectrum as well. Very interesting reading!

CANADA

10242333 VE1JC FN63 (-0110)	WB8YFE
10310357 VE7CAC, 0407 VE7FEI	K6QXY
10310410 VE7SKA, 0417 VE7HCP	K6QXY
11191345 VE1PZ (-1400)	H W3IWU
11191345+VE2 (-1400)	H W3IWU

COSTA RICA

09140200 TI2ERS (-0225)	9+20	50.110	LW5EJU TE
09140230 TI2NA	S1	50.079	B LW5EJU TE
10062130 TI2NA	59+20	50.0785	B LW5EJU TE
10062321 TI2NA ERIK	57	50.110	S LW5EJU TE
10100111 TI2NA	S3	50.0795	B LW5EJU TE
10130015 TI2NA	57	50.0795	B LW5EJU TE
10152230 TI2NA	2-3	50.0795	B LW5EJU TE
10152241 TI2NA ERIK	59	50.110	S LW5EJU TE
10242250 TI2NA	59+30	50.0795	B LW5EJU E2
10252100 TI2NA	59+20	50.0795	B LW5EJU E2
10252156 TI2NA	59+15	50.110	S LW5EJU E2
10252240 TI2HL EO49	59+30	50.130	S LW5EJU E2
10272318 TI2NA (-2347)	+10	50.0795	B LW5EJU E2
10280010 TI2NA	59+	50.0795	B LW5EJU TE
10290100 TI2NA	S9+10	50.0795	B LW5EJU TE
10290114 TI2NA ERIK	59+10	50.110	S LW5EJU TE
10312021 TI2NA (-2255)	S9+40	50.0795B	LW5EJU E2
11012340 TI2NA	59+30	50.0795	B LW5EJU TE
11022355 TI2NA	S9+	50.0795	B LW5EJU E2
11030100 TI4JHQ EDUARDO +20	50.105	S LW5EJU TE	
11032348 TI2NA	S9+20	50.0795	B LW5EJU E2/TE
11042242 TI2NA (-2342)	S9	50.0795	B LW5EJU E2
11042318 TI2ERS ERIK JR	S5	50.120	LW5EJU TE
11050100 TI2NA	59+10	50.0795	B LW5EJU TE
11050200 TI2NA	59+10	50.110	S LW5EJU TE

CUBA

10162310 CO2OJ OSCAR	S3	50.110	S LW5EJU TE
10172328 CO2OJ	2-3	50.110	S LW5EJU TE
10242252 CO2OJ	59+	50.110	S LW5EJU E2
11220200-CO	from MD		W1DGA FM18
11262308 CO2OJ	EL83		WB8YFE

DOMINICAN REPUBLIC

10022335 HI0VHF	S1-2	50.008	B LW5EJU TE
10050000 HI0VHF	S2-3	50.008	B LW5EJU TE
10062130 HI0VHF	59+20	50.008	B LW5EJU TE
10082158 HI0VHF	S9+20	50.008	B LW5EJU E2
10102330 HI0VHF	59+	50.008	B LW5EJU TE
10122315 HI0VHF		50.008	B LW5EJU TE
10160043 HI0VHF	S3	50.008	B LW5EJU TE
10242224 HI8ROX	53	50.110	S LW5EJU TE
10242250 HI0VHF	59+	50.008	B LW5EJU E2
10252123 HI0VHF	59+20	50.008	B LW5EJU E2
10272215 HI0VHF (-2315)	+10	50.008	B LW5EJU E2
10312021 HI0VHF (-2038)	S9+10	.008	B LW5EJU E2
11012328 HI0VHF	59	50.008	B LW5EJU E2
11032358 HI0VHF	S5	50.008	B LW5EJU E2/TE
11042242 HI0VHF (-2342)	S5	50.008	B LW5EJU E2

EL SALVADOR

10242325 YS1ECB ENGARDO	3-5	50.100	LW5EJU E2
10312315 YS1ECB EDGARDO	59	50.120	S LW5EJU E2

11040000 YS1ECB	57	50.110 S LW5EJU TE	11202300+W4DR FM17	(-0100)	CO2OJ
11042315 YS1ECB	57	50.110 S LW5EJU TE	11212300+W3 FM19	(-0100)	CO2OJ
			11252325+W2 FN23 (NY)	(-0005)	KE7CX CN85

MARTINIQUE

11042250 FM5WD FK94 LUCIEN 57 50.110S LW5EJU TE

MEXICO

10072103 XE3RCM EL50 59+10	50.054 B LW5EJU TE	09112242 KPRC-2 TX 1302 MI	T HEPBURN ONT
10082158 XE3RCM	57 50.054 B LW5EJU	09112342 KBRZ-2 LA T	T HEPBURN ONT
10092200 XE3RCM	59 50.054 B LW5EJU E2	09112344 N7JJS EM32	WB8YFE
10100140 XE2LQB DL98	S1 50.110 LW5EJU TE	09112348 KG5MZ EM51	WB8YFE
10102246 XE3RCM	59 50.054 B LW5EJU TE	09112350 WB5NRI EM22	WB8YFE
10110007 XE1ABA JUAN DK89 S9	50.115 S LW5EJU TE	09112354 WA5JCI EM21	WB8YFE
10122126 XE3RCM EL50 3-5	50.054 B LW5EJU TE	09120000 K9MK EM12	WB8YFE
10242250 XE3RCM	59+30 50.055 B LW5EJU E2	09120008 N5RZ DM81	WB8YFE

NICARAGUA

10312300 YN1NML NESTOR 59+20 50.110 S LW5EJU E2

PANAMA: First word about Louis, HP3/KG6UH, comes via JA1VOK's World VHF News in **FIVE NINE** December 1994 issue. He wrote in August, saying that he was still getting settled in (*busy fixing house* was the best translation I could get from my XYL.) He had already heard the FY7THF beacon on August 10 and the YV4AB beacon on August 23. Planned "soon" were a 5-element beam for 6m, a 14-element beam for 2m, and 9-something for 70 cm. Apparently he has already worked 15-18 JAs, and had 48 QSOs through AO-13.

10062155 HP2CWB JOSE 59+10	50.110 S LW5EJU TE	09120030 KTBS-3 LA 1090 MI	T CONIGLIO NY
11030100 HP2CWB JOSE 59+10	50.110 S LW5EJU TE	09120032 KB5ULP EM14	WB8YFE

PUERTO RICO

10022335 KP4SQ PEDRO 59	50.110 LW5EJU TE	09120044 N5HHS EL29	WB8YFE
10050016 KP4HX BRAULIO 53	50.110 S LW5EJU TE	09120149 W5OZI EM00	WB8YFE
10052224 KP4SQ PEDRO S1	50.110 LW5EJU TE	09120156 KC5FP EM16	WB8YFE
10082240 KP4SQ PEDRO 59+10	50.110 S LW5EJU TE	10092155 KC5FLY HENRY TX 52	50.125 S LW5EJU E2
10092140 KP4EIT JOSE 59+20	50.105 S LW5EJU E2	10092200 W5UWB JOHN EL17 53	50.125 S LW5EJU E2
10092200 KP4SQ FK78HE S9+20	50.110 S LW5EJU E2	10092235 N5TX TEX EL09 59	50.118 S LW5EJU E2
10122333 KP4SQ PEDRO 59+	50.125 S LW5EJU TE	10240056 W5VAS	B WB8YFE
10162305 WP4KJJ DENYS FK68 57	.110 S LW5EJU TE	10250100 W5 NM,TX,LA,ARK (-0300)	K6QXY
10242226 KP4SQ	59 50.120 S LW5EJU TE	10310140 W5VAS	B WB8YFE
10242259 KP4HX BRAULIO 59+	50.117 S LW5EJU E2	10310300+W5 EM12,EM14,DM62	KB7WW CN85
10252115 KP4SQ	59+10 50.110 S LW5EJU E2	10310422 W5NZS (BEAMING N)	K6QXY
10252132 KP4HX	3-5 50.110 LW5EJU E2	11130016 WB5VZL EM00	WB8YFE
10252217 WP4KJJ	S9+10 50.110 LW5EJU E2	11130022 N5QBO EM22	WB8YFE
10282340 WP4ARJ GILBERTO 54	50.110 S LW5EJU TE	11191330+W5 EM30,EM40,EM50 (-1830)	W3IWU
10312245 KP4SQ	59+20 50.110 S LW5EJU E2	11191330+W5 EM61,EL49 (-1830)	W3IWU
10312259 KP4HX	59+10 50.110 S LW5EJU E2	11202300+N5TML (-0100)	CO2OJ
11012216 KP4SQ	59+ 50.115 S LW5EJU E2	11220200-W5 (SO. TX) FM MD	W1DGA FM18
11042240 NP4NP ANGEL 2-3	50.130 LW5EJU TE/E2	11250230 W5 DM82, EM14 (WEAK)	H WB8YFE
11042248 KP4HX	57 50.110 S LW5EJU TE	11262319 KA5GIM EM11	WB8YFE
11042300 KP4SQ	57 50.110 S LW5EJU TE	11262353 N5ZLC EM22	WB8YFE
11052316 KP4SQ	S2 50.120 LW5EJU TE	11262356 N5ZWS EM14	WB8YFE

ST KITTS & NEVIS

10042345 V44KAI YOEL 55	50.110 S LW5EJU TE	11262358 N5LTN EM13 (-0045)	WB8YFE
10100105 V44KAO OLIVER FK87 57	.125 S LW5EJU TE		
10122310 V44QAI JOEL 57	50.125 S LW5EJU TE		

I'd bet that QAI (above, in St. Kitts) is really KAI and Yoel is really Joel, but the above is the way Nestor wrote it.

United States, W1,2,3,4

09120400 WCMT TN, MARTIN	101.7 F CONTONE NY	09120017 NOLL EM09	WB8YFE
10232308 N1MIW FN41		10310300+W0 DM79	KB7WW CN85
10232313 KA2VJV FN31		11191345+W8 (-1400)	H W3IWU
10232315 N1NBD FN32		11202300+KG8KY EN91	(-0100) CO2OJ
10232321 N2UAH FN20		11212300+W0 EN10	(-0100) CO2OJ
10232324 WB2UFF FN21		11252325+W0	(-0005) H KE7CX CN85
10232327 AA2DR FN30			
10232329 N1FHR FN31			
10232333 N1NNS FN41			
10232335 N2QHS FN30			
10232356 KD4AAU FM17			
10240056-W4 FM29,FM15,FM19,EM92	H WB8YFE		
10242330 W1, W2 (-0110)	H WB8YFE		
10310130-W2, W3 traces of Au	H WB8YFE		
11191330+W4 FL (-1830)	W3IWU		
11202300+KD4OFR EL96, EL98 (-0100)	CO2OJ		
11202300+W3MR FM18	(-0100) CO2OJ		

11202300+W4DR FM17	(-0100)	CO2OJ
11212300+W3 FM19	(-0100)	CO2OJ
11252325+W2 FN23 (NY)	(-0005)	KE7CX CN85

United States, W5

09112242 KPRC-2 TX 1302 MI	T HEPBURN ONT
09112342 KBRZ-2 LA T	T HEPBURN ONT
09112344 N7JJS EM32	WB8YFE
09112348 KG5MZ EM51	WB8YFE
09112350 WB5NRI EM22	WB8YFE
09112354 WA5JCI EM21	WB8YFE
09120000 K9MK EM12	WB8YFE
09120008 N5RZ DM81	WB8YFE
09120010 W5GAD EL49	WB8YFE
09120016 W3XO EM00	WB8YFE
09120022 KB5NFN, 0027 KB5IUA EL29	WB8YFE
09120030 KTBS-3 LA 1090 MI	T CONIGLIO NY
09120032 KB5ULP EM14	WB8YFE
09120044 N5HHS EL29	WB8YFE
09120149 W5OZI EM00	WB8YFE
09120156 KC5FP EM16	WB8YFE
10092155 KC5FLY HENRY TX 52	50.125 S LW5EJU E2
10092200 W5UWB JOHN EL17 53	50.125 S LW5EJU E2
10092235 N5TX TEX EL09 59	50.118 S LW5EJU E2
10240056 W5VAS	B WB8YFE
10250100 W5 NM,TX,LA,ARK (-0300)	K6QXY
10310140 W5VAS	B WB8YFE
10310300+W5 EM12,EM14,DM62	KB7WW CN85
10310422 W5NZS (BEAMING N)	K6QXY
11130016 WB5VZL EM00	WB8YFE
11130022 N5QBO EM22	WB8YFE
11191330+W5 EM30,EM40,EM50 (-1830)	W3IWU
11191330+W5 EM61,EL49 (-1830)	W3IWU
11202300+N5TML (-0100)	CO2OJ
11220200-W5 (SO. TX) FM MD	W1DGA FM18
11250230 W5 DM82, EM14 (WEAK)	H WB8YFE
11262319 KA5GIM EM11	WB8YFE
11262353 N5ZLC EM22	WB8YFE
11262356 N5ZWS EM14	WB8YFE
11262358 N5LTN EM13 (-0045)	WB8YFE

United States, W6, W7

10092130 W7RV TOMMY DM43 59	50.110 S LW5EJU E2
10310300 W7 (-0500)	K6QXY
10310300+W6 DM12	KB7WW CN85
10310300+W7 DM42, DM43	KB7WW CN85

United States, W8, W0: Ray King, WB8YFE, sent along a report that arrived the night before we went to press. He writes: "9/11-9/12, Nice little Es opening to the southwest during the final moments of the September VHF contest starting at 2345 and lasting until about 0200. 10/23, A good solid Es opening that started with the East coast and moved South from 2300 to about 0100. 10/24, Heard numerous stations in the W1, VE1 and W2 call areas from 2330 till 0110. 10/31, Heard the W5VAS beacon for a short time around 0140 after hearing traces of aurora from W2/W3. The opening never developed on either aurora or Es. 11/13, Short opening to the South/Southwest at 0015. 11/25 Heard a few weak stations from DM82, EM14 at around 0230 for 15 min. Nothing worked. 11/26, Nice Es opening starting at 2300. Opening lasted from 2300 to 0045. Equipment used: Icom 551+300 Watts into 5 element Yagi up 26 ft on 6 meters.

09120017 NOLL EM09	WB8YFE
10310300+W0 DM79	KB7WW CN85
11191345+W8 (-1400)	H W3IWU
11202300+KG8KY EN91	(-0100) CO2OJ
11212300+W0 EN10	(-0100) CO2OJ
11252325+W0	(-0005) H KE7CX CN85

News of Oceania

AUSTRALIA-VK2

1023XXXX VK2ZXC	ZL2TPY ES
11020420+VK2EMA, VK2KBW (-0630)	JA
11062350 VK2FSI	ZL3NE
11070024 VK2AIS	ZL1AKW
11070030 VK2MA	ZL3NE
11070115 VK2KS	ZL3NE

AUSTRALIA-VK3

11020420+VK3DUT	(-0630)	JA
11062357 VK3DUT	51	ZL1AKW
11070035 VK3DUT		ZL3NE
11070637 VK3OT	(-0640)	JA2
11070930 VK3OT		ZL3NE

AUSTRALIA-VK4

1025XXXX VK4ADG		ZL2TPY ES
10260522 VK4TVI	50.110 S	JH1WHS
10260522 VK4TVI	(-0530)	JH1WHS
10260522 VK4WTN	(-0530)	JH1WHS
10260529 VK4WTN	50.110 S	JH1WHS
10300920 VK4RBM QG48	(-0930)	52.445 B JA1VOK TEP
10300920 VK4RBW/B		52.445 B JA1VOK
10300920 VK4RIK QH23	(-0930)	52.445 B JA1VOK TEP
10300920 VK4RIK/B		52.445 B JA1VOK
10310425 VK4AFL		50.130 S JH1WHS
11020420+VK4AFL, VK4ALM	(-0630)	JA
11020420+VK4APG, VK4TBW	(-0630)	JA
11020420+VK4PU, VK4ZX	(-0630)	JA
11020420+VK4TVI	(-0630)	JA
11030410+VK4ABP/B	(-0443)	B JA
11030410+VK4ZX, VK4TVI	(-0443)	JA

AUSTRALIA-VK5

11070110 VK5BC	51	ZL1AKW
11070112 VK5BC		ZL3NE
11070150 VK5BC		ZL1MQ

AUSTRALIA-VK8

10051030 VK8VF/B	50.057 B	JA5CMO
10300935 VK8VF/B	50.057 B	JA1VOK
10301030 VK8VF/B	50.057 B	JA5CMO

MARSHALL IS: JA1VOK writes that unfortunately no 6m stations were worked by the V7 DX-pedition group on October 28-November 1.

NEW ZEALAND

1029XXXX ZL3NE, ZL2TPY, ZL2WBA		VK2ZXC ES
11060420 ZL2KT	(-0423)	JA
11070034 ZL3TIC		ZL1MQ
11070040 ZL3NE, ZL1MQ		VK2AIS
11070120 ZL3TIC	51	ZL1AKW
11070121 ZL3NW		ZL1MQ
11070247+ZL2UJH, ZL3AAU	(-0300)	JA3
11070247+ZL3TIC, ZL4LV	(-0300)	JA3

PHILLIPINES

10291304 DU7/N7ET	50.110 S	JA5CMO
10301230 DU7/N7ET	50.110 H	JA5CMO

News of South America**ARGENTINA**

09242230 LU3ECN LUIS	57	50.130 S LW5EJU D
10011738 LU4EBC JORGE	59	50.110 LW5EJU D
10062150 LU4DFZ HECTOR	35	50.110 LW5EJU D
10082110 LU8EEM RUBEN FF95		50.110 LW5EJU TR
10082115 LU9EHF LUIS FF95		50.110 S LW5EJU TR
10082118 LU1DMA LUIS GF05		50.110 S LW5EJU D
10102338 LU9EHF LUIS	S1	50.110 LW5EJU TR
10151545 LU5JAU DANIEL	59+10	50.110 S LW5EJU TR
10272246 LU5JAU DANIEL	55	50.140 S LW5EJU E
10272251 AZ3FAF DANIEL	57	50.140 S LW5EJU E
10291712 LU8DIO EDUARDO	S9+	50.110 LW5EJU D
10291737 LU5JAU GF07	59+ & 2030	LW5EJU TR
10292244 LU3YA HECTOR	59+30	50.110 B LW5EJU E
10301526 LU5JAU DANIEL	59+10	50.110 S LW5EJU TR
10301530 LU2JS SEBASTIAN	57	50.110 S LW5EJU TR
11022230 LU8DIO	59	50.110 S LW5EJU D
11031638 LU5JAU	59+10	50.110 S LW5EJU TR
11031640 LU8JOZ RAMON	S2	50.110 LW5EJU TR
11031751 LU2EIO GF05	S2	50.110 LW5EJU D
11031751 LW6EUQ RUBEN	S1	50.110 LW5EJU D
11051545 LU5JAU	S1-3	50.110 LW5EJU TR
11051631 LU1VK FE48	59+30	50.111 S LW5EJU E
11051721 LU8DIO	59+10	50.110 S LW5EJU D
11052118 LU5JAU	S5	50.110 LW5EJU TR

ARUBA

10030212 P43C OLE FK42	58	50.110 S LW5EJU TE
10050001 P43C OLE	59+20	50.110 S LW5EJU TE
10050123 P43TAT CARLOS	57	50.110 S LW5EJU TE
10102330 P43C OLE	59+20	50.110 S LW5EJU TE
10112350 P43C OLE	59+40	50.110 S LW5EJU TE
10142345 P43C	59+20	50.110 S LW5EJU TE
10160038 P43C	59+10	50.110 S LW5EJU TE
10170040 P43C	59+20	50.110 S LW5EJU TE
10172325 P43C	59+30	50.110 S LW5EJU TE
10212310 P43C	59+20	50.110 S LW5EJU TE
10252234 P43C	59+30	50.110 S LW5EJU E2
10272310 P43C	59+10	50.110 S LW5EJU E2
10272324 P43C		PY0FM
10272348 P43C	59+10	50.110 S LW5EJU TE
10282339 P43C		PY0FM
10310220 BOB FK52	S9+	50.110 LW5EJU TE
10310250 P43C	59+10	50.110 S LW5EJU TE
11040018 P43C	59+20	50.110 S LW5EJU TE
11042301 P43C	59+10	50.110 S LW5EJU TE

BRAZIL

10082131 PY4RJ EDUARDO	59+20	50.120 S LW5EJU E
10082142 PY4ACE DALTON	59+20	50.120 S LW5EJU E
10272300 PP5BC		PY0FM
10272320 PY2CDS		PY0FM
10272325 PY2XB		PY0FM
10282015 PP5WL		PY0FM
10292139 PS7KM KARL HI24	59	50.120 S LW5EJU E
11020130 PY2GR		PY0FM
11020150 PY5EJ/RESPONDER		50.280 PY0FM
11031949 PP5BC INGO	57	50.110 S LW5EJU E
11032050 PP2OU GUILLERMO	59	50.110 S LW5EJU E
11032053 PY2WG MANUEL	59+10	50.110 S LW5EJU E
11032100 PY3MCG GF49JX	59+20	50.0075B LW5EJU E
11032158 PP5BC INYO	S9+10	50.110 LW5EJU E
11032210 PY5CC PETER	59+60	50.120 S LW5EJU E
11032217 PY5TM GG5	59+60	50.120 S LW5EJU E
11032318 PY2MEM MARCOS	59+20	50.130 S LW5EJU E
11040130 PY2BKM MARCILIO	59	50.115 S LW5EJU ES
11052147 PY5CC	S3	50.110 LW5EJU E
11052230 PY5CC	59+30	50.110 S LW5EJU E
11052243 PY5CD JORGE	5-7	50.110 LW5EJU E

FRENCH GUIANA

10122300 FY7THF	S1	50.038 B LW5EJU TE
10192329 FY7THF	3-5	50.038 B LW5EJU TE
10202300 FY7THF	59+10	50.038 B LW5EJU TE
10262115 FY7THF	(-2125) +20	.038 B LW5EJU E2
10272330 FY7THF/B		B PY0FM
11052257 FY7THF	(-2310) 3-5	50.0375 B LW5EJU TE

PARAGUAY

10272323 ZP5PT		PY0FM
11020123 ZP5PT		PY0FM

URUGUAY

10082100 CX1CCC	59	50.020 B LW5EJU TR
10152105 CX1CCC	1-2	50.020 B LW5EJU TR
10272225 CX8BE GF15XO	59+10	50.130 S LW5EJU E
10272248 CX6BO JOSE	LUIS 56	50.140 S LW5EJU E
10292218 CX1CCC	S3	50.019 B LW5EJU E
10312100 CX1CCC	3-5	50.020 B LW5EJU E
10312300 CX1CCC/B		B PY0FM
11031659 CX2IY GF17	S1	50.110 LW5EJU TR

VENEZUELA

09140123 YV4AB	(-0210)	S3-5 50.024 B LW5EJU TE
10050000 YV4AB		59 50.025 B LW5EJU TE
10092340 YV4AB		59 50.024 B LW5EJU TE
10100020 YV4AB	IVAN FK50	59+10 .110 S LW5EJU TE
10122315 YV4AB		50.025 B LW5EJU TE
10160035 YV4AB		59 50.025 B LW5EJU TE
10202333 YV4AB	IVAN	59 50.115 S LW5EJU TE
10252245 YV4AB		S9+20 50.025 B LW5EJU E2
10272340 YV4AB		59 50.025 B LW5EJU TE
10290100 YV4AB		S9+ 50.025 B LW5EJU TE
10312038 YV4AB	(-2055)	S9+20 50.025 B LW5EJU E2
11012328 YV4AB	(-2340)	59 50.025 B LW5EJU E2
11012330 YV4AB	IVAN	59+10 50.115 S LW5EJU TE
11032348 YV4AB		S9+20 50.025 B LW5EJU E2/TE

11050030 YV4AB
11052021 YV4AB

57 50.025 B LW5EJU TE
S3 50.025 B LW5EJU TE

EME News

Denmark: My apologies for placing OZ5IQ in Sweden last month. Kim informs us by e-mail that he worked I5MXX via EME on October 30, and that OZ7DX's antenna is not steerable in elevation yet.

Montana: W7HAH writes: "I had several schedules with OZ5IQ on 6 meters EME, one on Oct. 30, he was not heard, the other schedule was on Nov. 12th. OZ5IQ was heard and we were sending "Os", he also heard me but we did not complete. I was hearing my own echoes relatively good. OZ5IQ is using 2 6el M-square yagis and a kW. On Nov. 1st, I ran with IK8MKK but heard nothing. Conditions on Oct. 30 were very poor with a magnetic storm in progress. Will be making more schedules with these stations, with decent conditions we should make a good contact with OZ5IQ."

California: K6QXY writes: As per SM7AED comments that the "California Gang" had promised to be on or around 50.030, that was a proposal that Mike (K6MYC) was working on, but Jimmy (W6JKV) has severe "intermod" problems near 50.030 and we moved to 50.010. Seems that it is harder and harder to find a clear frequency these days. By the way, I heard SM7BAE not SM7AED on 50.010. (Ed-sorry, guess I had SM7AED on my mind.)

How about a small EME window on 6 meters? Say 5 to; 10 kHz max! -- A spot where we would all operate (except Italy and France) & ?? because of band restrictions). In looking at the beacon allocations I'm thinking of 50.080 to 50.090 or 50.090 to 50.100, or even 50.100 to 50.105, etc. What would the rest of the world think of that? Activity is small, we don't need much room. Signals are weak, so we don't want to have to tune very far. We could assign some key frequencies to the "big" stations like they do on 2 meters; i.e., W5UN is always on 144.008, etc.

Now that the power restrictions have been lifted in large parts of Europe, why aren't we getting sked requests from anyone? Where are all these G, GM, GW, GU, GJ's etc. We have proven time and again that a single long Yagi and 500W is capable of making an EME contact, and surely from all the heard reports we got several years ago, very small stations can hear us. In fact quite well."

There is always the danger, if you operate too close to the phone DX band, that one or more stations not in the know, will assume the band has opened and start calling CQ DX. How about it readers?

Beacon News

Azores: CU3URA beacon on 50.0135 is running 24 hours a day from Serra Santa Barbara (HM68) with 5 W and 5/8λ ground plane 1030 mtr high according to CU1EZ. (Tnx JA1VOK)

New Zealand: The ZL1/ZL2 beacons are expected to be back this winter (summer season in ZL) though they are off the air at present according to ZL2TPY. (Tnx JA1VOK)

Mexico: N6XQ relays information from Bernardo, XE2HWB. The XE2HWB beacon on 50.008 is now running at his (Bernardo's) house at the 1 W level into a quad pointed north. He also has a 1 W beacon on 144.180 into a 6 el Yagi pointed north from his home in La Paz (DL44).

Australia: JA1VOK reports hearing the VK4RIK (QH23) and VK4RBM (QG48) beacons on 52.445 FSK.

Marshall Is: The V73AX beacon will be placed later on 50.036 according to V73IO/AH6IO. (Tnx JA1VOK)

F2-layer MUFs, Sep 94-Nov 94

The plots on the following page show hourly 3000 km F2-layer MUFs over Taoyuan, Taiwan. They cover 15 days per plot. Correlation with 27-28 day solar rotation, if any, would be on every other plot, displaced by 2-3 days. Notice that even near the bottom of the solar cycle that 50 MHz band openings by classical F2-layer propagation are possible over paths as short as 3000 km (14 days during this period).

F2-layer MUFs for 4000-5000 km paths are typically 10-15% higher than MUF(3000)F2. At the peak of the solar cycle such long single hops are indeed possible as the height of maximum ionization (hmF2) is elevated then to typically 350 km or more. This height varies with geographic location, season, and time of day. It also varies day to day. At the bottom of the solar cycle, midlatitude, winter, hmF2 values of 250 km are not uncommon, resulting in single-hop propagation maximum ranges not greatly in excess of 3200 km.

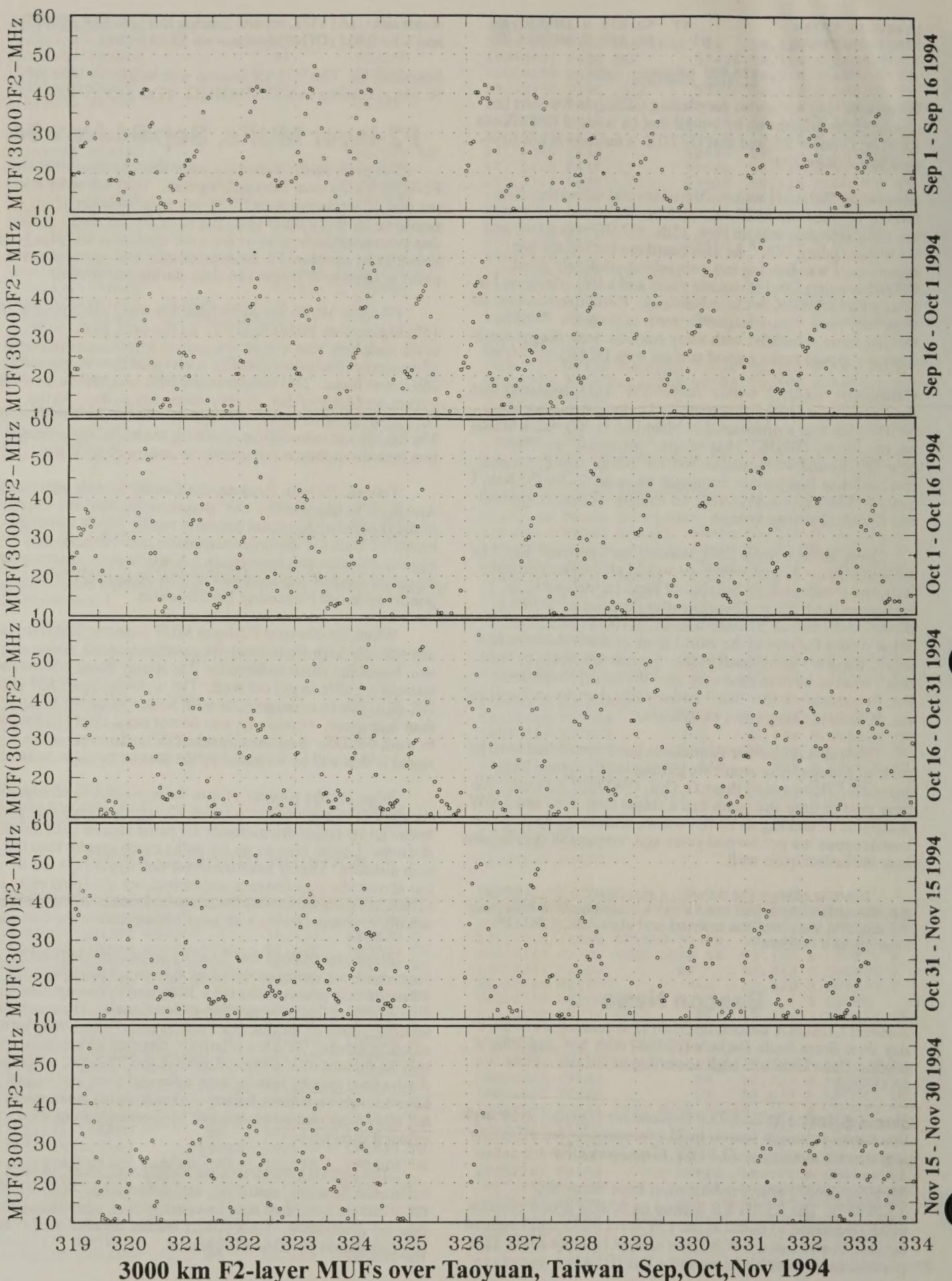
Taiwan, Hawaii, Panama, the Canary Islands, and Saudi Arabia all lie close to the +36° magnetic dip line, the location of the (northern) Appleton anomaly region where electrons boiled up from the daytime ionosphere near the magnetic equator descend and congregate. A world map, showing the magnetic equator and locations of ±36° magnetic dip was published in our November 1992 bulletin.

When the classical F2-layer MUF is above 50 MHz (or any suitably high frequency) for a particular path, transmission losses are close to those for free space. Even low-power stations are able to get out well. The well-equipped 50 MHz DXer is able to communicate with losses 50-60 dB greater than free space. Obviously, you do not need ideal conditions to work 6m DX. And the rarer the DX is, the weaker the signal is that will be tolerated by the station trying to work it.

What are the sources of loss for non-ideal conditions? As most of us have observed with F2-layer propagation, path losses go up rather dramatically for paths shorter than the skip distance. Losses also go up for paths much greater than the skip distance. That is because lower and upper rays are focused near the skip distance and unfocused much beyond. (There is also geometrical focusing for horizon rays, but this is usually overcome by poor antenna response near the horizon.)

Have you noticed that 50 MHz signals propagated by Sporadic-E are rarely as strong as signals propagated by F2 when the skip gets in close (like 3000 km)? You need more than a point reflector to get free-space signals. The size of the reflector required for that is a Fresnel zone (which may be tens of km in extent). While a relatively constant electron density may be present over a Fresnel zone in the F2-layer, a Sporadic-E cloud may be smaller than a Fresnel zone and/or may have enough variation of electron density with position as to not allow coherent addition of 50 MHz energy from what extent it does have.

The signals you receive on 50 MHz are likely to have suffered diffraction, scattering, and defocusing. With 50-60 dB of excess loss, they may be coming from other directions than the great circle. Such effects are not handled well if at all by propagation prediction programs.



3000 km F2-layer MUFs over Taoyuan, Taiwan Sep,Oct,Nov 1994